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Automated Report

Technical Report for

Occidental Petroleum Corporation

Kerr-McGee:GWA_Fern_Pad

FID-753868-Reg-VOL-Freq.IN

SGS Job Number: DA71402

Sampling Date: 03/24/25

Report to:

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Total number of pages in report: 51

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Eric Hoffman

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Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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Sample Summary

Occidental Petroleum Corporation

Job No: DA71402

Kerr-McGee:GWA_Fern_Pad
Project No: FID-753868-Reg-VOL-Freq.IN

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
DA71402-1	03/24/25	10:28	AL	03/25/25	AQ	Ground Water	BW_BEARSON_158040 SWSW_18_2N_66W
DA71402-1A	03/24/25	10:28	AL	03/25/25	AQ	Ground Water	BW_BEARSON_158040 SWSW_18_2N_66W
DA71402-1B	03/24/25	10:28	AL	03/25/25	AQ	Ground Water	BW_BEARSON_158040 SWSW_18_2N_66W
DA71402-1F	03/24/25	10:28	AL	03/25/25	AQ	Groundwater Filtered	BW_BEARSON_158040 SWSW_18_2N_66W

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Occidental Petroleum Corporation **Job No:** DA71402

Site: Kerr-McGee:GWA_Fern_Pad **Report Date** 4/30/2025 6:59:22 AM

On 03/25/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blanks and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.1 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA71402 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5V4332

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71431-1MS, DA71431-1MSD were used as the QC samples indicated.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK413

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71427-1AMS, DA71427-1AMSD were used as the QC samples indicated.
- DA71402-1A: The pH of the sample was >2 at time of analysis. Bottles marked as preserved.

GC Volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** GGA3023

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71379-2MS, DA71379-2MSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8015C

Matrix: AQ **Batch ID:** OP27443

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71445-10MS, DA71445-10MSD were used as the QC samples indicated.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** N:MP53612

- The data for EPA 200.8 meets quality control requirements.
- DA71402-1F for Sodium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Boron: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Strontium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Selenium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Potassium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Manganese: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Magnesium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Iron: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Calcium: Analysis performed at SGS Dayton, NJ.
- DA71402-1F for Barium: Analysis performed at SGS Dayton, NJ.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP38386

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71389-2MS, DA71389-2MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Bromide, Sulfate analysis.
- The matrix spike (MS) recovery(s) of Sulfate are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- DA71402-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA71402-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

Matrix: AQ **Batch ID:** R65166

- The data for EPA 300.0 meets quality control requirements.
- DA71402-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP38424

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA70547-1DUP, DA70547-1MS were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART-NOCERT

Matrix: AQ **Batch ID:** MB1841

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71342-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.
- MB1841-MB for Iron-Related Bacteria: Certification for this test is not offered.
- DA71402-1B for Iron-Related Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SLYM-BART-NO CERT

Matrix: AQ **Batch ID:** MB1840

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71342-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.
- MB1840-MB for Slime Forming Bacteria: Certification for this test is not offered.
- DA71402-1B for Slime Forming Bacteria: Certification for this test is not offered.

General Chemistry By Method HC SRB-BART-NO CERT

Matrix: AQ **Batch ID:** MB1839

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71342-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.
- MB1839-MB for Sulfate Reducing Bacteria: Certification for this test is not offered.
- DA71402-1B for Sulfate Reducing Bacteria: Certification for this test is not offered.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN66485

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN66487

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN66488

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ **Batch ID:** GP38381

- Sample(s) DA71438-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix: AQ **Batch ID:** GN66484

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71465-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

General Chemistry By Method SM1030E-2011

Matrix: AQ **Batch ID:** GN66567

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix:	AQ	Batch ID:	GN66478

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA71402-1
- DA71402-1 for pH: Field parameter analyzed by the laboratory upon request.

Field Data By Method FIELD

Matrix:	AQ	Batch ID:	R65163

- The data for FIELD meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	SGS Wheat Ridge, CO	**Job No:**	DA71402
Site:	ANADACOD: GWA_Ferge_Water_Well	**Report Date**	4/7/2025 2:59:58 AM

On 03/25/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.9 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA71402 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP53612

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA71402-1FMS, DA71402-1FMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: DA71402
Account: Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad
Collected: 03/24/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA71402-1	**BW_BEARSON_158040 SWSW_18_2N_66W**					
Fluoride		1.8	0.50		mg/l	EPA 300.0
Chloride		55.5	2.5		mg/l	EPA 300.0
Bromide		0.57	0.25		mg/l	EPA 300.0
Sulfate		1.3	0.50		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		444	5.0		mg/l	SM 2320B-2011
Alkalinity, Carbonate		35.3	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		479	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		3.1			%	SM1030E-2011
Phosphorus, Total		0.038	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		460	10		mg/l	SM 2540C-2011
Specific Conductivity		1130	1.0		umhos/cm	SM 2510B-2011
pH [a]		8.99			su	SM4500HB + -2011/9040C
Specific Conductivity (Field)		973.8	0.50		umhos/cm	FIELD
pH (Field)		8.94			su	FIELD
Temperature (Field)		15			Deg. C	FIELD
Turbidity		0.02			NTU	FIELD
Oxygen, Dissolved (Field)		0.06			mg/l	FIELD
DA71402-1A	**BW_BEARSON_158040 SWSW_18_2N_66W**					
Methane [b]		6.98	0.0080	0.0070	mg/l	RSK175 MOD
Ethane [b]		0.0141	0.0016	0.0010	mg/l	RSK175 MOD
DA71402-1B	**BW_BEARSON_158040 SWSW_18_2N_66W**					
Iron-Related Bacteria [c]		500	25		CFU/ml	HACH IRB-BART-NOCERT
Slime Forming Bacteria [c]		1300	500		CFU/ml	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [c]		6000	200		CFU/ml	HC SRB-BART-NO CERT
DA71402-1F	**BW_BEARSON_158040 SWSW_18_2N_66W**					
Barium [d]		0.0468	0.0010		mg/l	EPA 200.8
Boron [d]		0.247	0.10		mg/l	EPA 200.8
Calcium [d]		1.84	0.25		mg/l	EPA 200.8
Iron [d]		0.0541	0.050		mg/l	EPA 200.8
Magnesium [d]		0.388	0.25		mg/l	EPA 200.8
Manganese [d]		0.0060	0.0010		mg/l	EPA 200.8
Potassium [d]		1.11	0.25		mg/l	EPA 200.8
Sodium [d]		240	13		mg/l	EPA 200.8
Strontium [d]		0.0617	0.0050		mg/l	EPA 200.8

(a) Field parameter analyzed by the laboratory upon request.
(b) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.

Summary of Hits

Job Number: DA71402
Account: Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad
Collected: 03/24/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(c) Certification for this test is not offered.
(d) Analysis performed at SGS Dayton, NJ.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V89235.D	1	04/01/25 13:30	MB	n/a	n/a	V5V4332
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA69259.D	1	04/01/25 22:20	MB	n/a	n/a	GGA3023
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	102%		60-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
Method:	SW846 8015C SW846 3511	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP079431.D	1	03/30/25 22:23	JB	03/29/25 10:00	OP27443	GFP172
Run #2							

	Initial Volume	Final Volume
Run #1	57.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.18	0.12	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		36-145%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	1.8	0.50	mg/l	5	03/26/25 09:53	AM	EPA 300.0
Chloride	55.5	2.5	mg/l	5	03/26/25 09:53	AM	EPA 300.0
Nitrogen, Nitrite [a]	< 0.020	0.020	mg/l	5	03/26/25 09:53	AM	EPA 300.0
Bromide	0.57	0.25	mg/l	5	03/26/25 09:53	AM	EPA 300.0
Nitrogen, Nitrate [a]	< 0.050	0.050	mg/l	5	03/26/25 09:53	AM	EPA 300.0
Sulfate	1.3	0.50	mg/l	1	03/26/25 10:45	AM	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [b]	< 0.070	0.070	mg/l	1	03/26/25 09:53	AM	EPA 300.0
Alkalinity, Bicarbonate as CaC	444	5.0	mg/l	1	03/27/25 07:00	JW	SM 2320B-2011
Alkalinity, Carbonate	35.3	5.0	mg/l	1	03/27/25 07:00	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	479	5.0	mg/l	1	03/27/25 07:00	JW	SM 2320B-2011
Cation Anion Balance	3.1		%	1	04/07/25	MB	SM1030E-2011
Phosphorus, Total	0.038	0.010	mg/l	1	04/07/25 13:00	TH	EPA 365.1
Solids, Total Dissolved	460	10	mg/l	1	03/28/25 07:00	JW	SM 2540C-2011
Specific Conductivity	1130	1.0	umhos/cm	1	03/26/25 12:00	JW	SM 2510B-2011
pH [c]	8.99		su	1	03/26/25 09:30	JW	SM4500HB+-2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	0.06		mg/l	1	03/24/25 10:28	SUB	FIELD
Redox Potential Vs H2	-243.3		mv	1	03/24/25 10:28	SUB	FIELD
Specific Conductivity (Field)	973.8	0.50	umhos/cm	1	03/24/25 10:28	SUB	FIELD
Temperature (Field)	15		Deg. C	1	03/24/25 10:28	SUB	FIELD
Turbidity	0.02		NTU	1	03/24/25 10:28	SUB	FIELD
pH (Field)	8.94		su	1	03/24/25 10:28	SUB	FIELD

(a) Elevated detection limit due to matrix interference.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Field parameter analyzed by the laboratory upon request.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1A	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FK55761.D	1	03/28/25 15:18	MB	n/a	n/a	GFK413
Run #2 [a]	FK55762.D	10	03/28/25 15:23	MB	n/a	n/a	GFK413

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	21.7 Deg. C
Run #2	39.0 ml	4.0 ml	500 ul	21.7 Deg. C

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.98 [b]	0.0080	0.0070	mg/l	
74-84-0	Ethane	0.0141	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1B	**Date Sampled:**	03/24/25
Matrix:	AQ - Ground Water	**Date Received:**	03/25/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Not certifiable							
Iron-Related Bacteria [a]	500	25	CFU/ml	1	04/11/25	JB	HACH IRB-BART-NOCERT
Slime Forming Bacteria [a]	1300	500	CFU/ml	1	04/11/25	JB	HC SLYM-BART-NO CERT
Sulfate Reducing Bacteria [a]	6000	200	CFU/ml	1	04/11/25	JB	HC SRB-BART-NO CERT

(a) Certification for this test is not offered.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_BEARSON_158040 SWSW_18_2N_66W		
Lab Sample ID:	DA71402-1F	**Date Sampled:**	03/24/25
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/25/25
		Percent Solids:	n/a
Project:	Kerr-McGee:GWA_Fern_Pad		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium [a]	0.0468	0.0010	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Boron [a]	0.247	0.10	mg/l	2	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Calcium [a]	1.84	0.25	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Iron [a]	0.0541	0.050	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Magnesium [a]	0.388	0.25	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Manganese [a]	0.0060	0.0010	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Potassium [a]	1.11	0.25	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Selenium [a]	< 0.0010	0.0010	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Sodium [a]	240	13	mg/l	50	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]
Strontium [a]	0.0617	0.0050	mg/l	1	04/03/25	04/03/25	ANJ	EPA 200.8 [1]	EPA 200.8 [2]

(1) Instrument QC Batch: N:MA58230
(2) Prep QC Batch: N:MP53612

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job #: DA 71 402

Client / Reporting Information		Project Information		Billing Information (If different from Report to)
Company:	Kerr-McGee Oil and Gas Onshore LP	Project Name: GWA_Fern_Pad	Frequency: IN	
Street:	1099 18th Street	Regulation: Voluntary		Company: Occidental Petroleum Corporation (OXY)
City, State:	Denver, CO 80202	Facility ID: 753868		Street Address: 1201 Lake Robbins Drive
Project Contact:	Joel Mason	EQuIS Facility Code: 0089019-AN-GWABWQ		City, State ZIP: The Woodlands, TX 77380
Phone:	307-262-8975	Client Purchase Order #: Pending		Attention: Erik Mickelson User ID: fvv451
Email:	Joel.Mason@Absarokasolutions.com	Project Manager: Joel Mason		
Sampler(s) Name(s):	Al			

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O4	Other	PH, SCON, TDS	XCARBICALK	BRO, CHL, F, NO2, XNO3O, NO32, SO4	TPO4	Dissolved Metals - Lab Filtered*	VRSK175DGMEP (5 day RUSH)	V8260BTX	B8015DRO	V8015GRO	IRBAC, SFBAC, SO4RBAC	CABAL	LAB USE ONLY
BW_Bearson_158040	3/24/2025	10:28	Al	GW	19	11	6			1					1	X	X	X	X	X	X	X	X	X	X	X	01
SWSW_18_2N_66W																											
Temperature, field	15.0	°C																									
pH, field	8.94	s.u.																									
Specific Conductivity, field	473.8	uS/cm																									
Oxidation Reduction Potential, field	-243.3	mV																									
Dissolved Oxygen, field	0.06	mg/L																									
Turbidity, field	0.02	NTU																									

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [x] 5 Day RUSH (RSK only)
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency

Emergency & Rush T/A data available VIA LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [x] EDD Format: COGCC Compatible

Comments / Special Instructions

*Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe,Mg, Mn, K, SeMS, Na, Sr

Please also send reports to Jordan.Fleming@absarokasolutions.com.

RUSH 5 DAY TAT FOR RSK.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date/Time: 3/24/25 18:00	Received By: 1	Relinquished By: 2	Date/Time:	Received By: 2
Relinquished by Sampler: 3	Date/Time:	Received By: 3	Relinquished By: 4	Date/Time:	Received By: 4

Custody Seal # Intact [x] Not Intact [ ] Absent [ ]

Preserved where applicable [x] Cooler Temp. °C: 9.1 Therm. ID: 1020 On Ice [x]

Form MSQA 064-01, RV 6/19/17
http://www.sgs.com/terms-and-conditions

SGS Sample Receipt Summary

Job Number: da71402 **Client:** ABSAROKA **Project:** GWA

Date / Time Received: 3/25/2025 12:30:00 PM **Delivery Method:** co **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.1);

Cooler Temps (Corrected) °C: Cooler 1: (4.1);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysi	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample labe	☐		☐	
7. VOCs have headspace	☑		☐	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☐
11. % Solids Jar Received?	☐		☐	☐
12. Residual Chlorine Present?	☐		☐	☐

Misc Information

Number of Encores: 25 Gram 5 Gram

Test Strip Lot #s: pH 0-3: pH 10-12:

Residual Chlorine Test Strip Lot

Number of Lab Filtered Metals

Other: (Specify)

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 3/25/2025 12:55:29 PM Reviewer: Date:

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4332-MB	5V89212.D	1	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71402-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

Blank Spike Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4332-BS	5V89210.D	1	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71402-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.5	99	70-130
100-41-4	Ethylbenzene	50	48.3	97	70-130
108-88-3	Toluene	50	47.9	96	70-130
	m,p-Xylene	100	95.5	96	70-130
95-47-6	o-Xylene	50	48.0	96	70-130
1330-20-7	Xylene (total)	150	144	96	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71431-1MS	5V89226.D	25	04/01/25	MB	n/a	n/a	V5V4332
DA71431-1MSD	5V89227.D	25	04/01/25	MB	n/a	n/a	V5V4332
DA71431-1	5V89225.D	25	04/01/25	MB	n/a	n/a	V5V4332

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA71402-1

CAS No.	Compound	DA71431-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1110		1250	2370	101	1250	2350	99	1	70-130/30
100-41-4	Ethylbenzene	129		1250	1320	95	1250	1330	96	1	70-130/30
108-88-3	Toluene	1230		1250	2430	96	1250	2440	97	0	70-130/30
	m,p-Xylene	438		2500	2760	93	2500	2770	93	0	70-130/30
95-47-6	o-Xylene	199		1250	1370	94	1250	1380	94	1	70-130/30
1330-20-7	Xylene (total)	637		3750	4140	93	3750	4150	94	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71431-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	103%	70-130%
2037-26-5	Toluene-D8	98%	98%	100%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	101%	70-130%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3023-MB	GA69239.D	1	04/01/25	MB	n/a	n/a	GGA3023

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	102%	60-140%

Method Blank Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK413-MB	FK55759.D	1	03/28/25	MB	n/a	n/a	GFK413

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71402-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

Blank Spike Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA3023-BS	GA69237.D	1	04/01/25	MB	n/a	n/a	GGA3023

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	2.2	1.72	78	64-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	105%	60-140%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK413-BS	FK55760.D	10	03/28/25	MB	n/a	n/a	GFK413

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71402-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
74-82-8	Methane	0.51	0.614	120	70-135
74-84-0	Ethane	0.956	1.23	129	70-150
74-98-6	Propane	1.4	1.71	122	70-145

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71379-2MS	GA69249.D	25	04/01/25	MB	n/a	n/a	GGA3023
DA71379-2MSD	GA69250.D	25	04/01/25	MB	n/a	n/a	GGA3023
DA71379-2	GA69248.D	25	04/01/25	MB	n/a	n/a	GGA3023

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	DA71379-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	62.6		55	106	79	55	106	79	0	56-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71379-2	Limits
120-82-1	1,2,4-Trichlorobenzene	101%	100%	99%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA71427-1AMS	FK55764.D	10	03/28/25	MB	n/a	n/a	GFK413
DA71427-1AMSD	FK55765.D	10	03/28/25	MB	n/a	n/a	GFK413
DA71427-1A [a]	FK55763.D	10	03/28/25	MB	n/a	n/a	GFK413

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA71402-1A

CAS No.	Compound	DA71427-1A mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.714		0.51	1.22	99	0.51	1.19	93	2	20-183/30
74-84-0	Ethane	0.143		0.956	1.17	107	0.956	1.14	104	3	50-140/30
74-98-6	Propane	0.0717		1.4	1.49	101	1.4	1.45	98	3	50-140/30

(a) The pH of the sample was > 2 at time of analysis. Bottles marked as preserved.

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27443-MB	FP079421.D	1	03/30/25	JB	03/29/25	OP27443	GFP172

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.18	0.13	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	88%	36-145%

Blank Spike Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27443-BS	FP079422.D	1	03/30/25	JB	03/29/25	OP27443	GFP172

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	3.64	3.02	83	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	36-145%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27443-BS2	FP079423.D	1	03/30/25	JB	03/29/25	OP27443	GFP172

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	36-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27443-MS1	FP079424.D	1	03/30/25	JB	03/29/25	OP27443	GFP172
OP27443-MSD1	FP079425.D	1	03/30/25	JB	03/29/25	OP27443	GFP172
DA71445-10	FP079444.D	1	03/31/25	JB	03/29/25	OP27443	GFP172

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	DA71445-10 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		3.39	2.87	85	3.4	2.53	74	13	65-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA71445-10	Limits
84-15-1	o-Terphenyl	100%	99%	89%	36-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA71402
Account: ANADACOD Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27443-MS2	FP079426.D	1	03/30/25	JB	03/29/25	OP27443	GFP172
OP27443-MSD2	FP079427.D	1	03/30/25	JB	03/29/25	OP27443	GFP172
DA71445-10	FP079444.D	1	03/31/25	JB	03/29/25	OP27443	GFP172

The QC reported here applies to the following samples: **Method:** SW846 8015C

DA71402-1

CAS No.	Compound	DA71445-10 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	DA71445-10	Limits
84-15-1	o-Terphenyl	88%	81%	89%	36-145%

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71402
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN66487	5.0	0.0	mg/l	100	104	104.1	90-110%
Alkalinity, Carbonate	GN66488	5.0	0.0	mg/l	100	104	104.1	90-110%
Alkalinity, Total as CaCO3	GN66485	5.0	0.0	mg/l	100	104	104.1	90-110%
Bromide	GP38386/GN66480	0.050	0.0	mg/l	0.5	0.524	104.8	90-110%
Chloride	GP38386/GN66480	0.50	0.0	mg/l	5	5.27	105.4	90-110%
Fluoride	GP38386/GN66480	0.10	0.0	mg/l	1	1.06	106.0	90-110%
Iron-Related Bacteria	MB1841	25	<25(a)	CFU/ml				
Nitrogen, Nitrate	GP38386/GN66480	0.010	0.0	mg/l	0.1	0.101	101.0	90-110%
Nitrogen, Nitrite	GP38386/GN66480	0.0040	0.0	mg/l	0.05	0.0540	108.0	90-110%
Phosphorus, Total	GP38424/GN66577	0.010	0.0	mg/l	0.2	0.192	96.0	90-110%
Slime Forming Bacteria	MB1840	500	<500(a)	CFU/ml				
Solids, Total Dissolved	GN66484	10	0.0	mg/l	250	516	103.2	90-110%
Specific Conductivity	GP38381/GN66473			umhos/cm	10000	1400	99.0	90-110%
Sulfate	GP38386/GN66480	0.50	0.0	mg/l	5	5.40	108.0	90-110%
Sulfate Reducing Bacteria	MB1839	200	<200(a)	CFU/ml				

Associated Samples:
Batch MB1839: DA71402-1B
Batch MB1840: DA71402-1B
Batch MB1841: DA71402-1B
Batch GN66484: DA71402-1
Batch GN66485: DA71402-1
Batch GN66487: DA71402-1
Batch GN66488: DA71402-1
Batch GP38381: DA71402-1
Batch GP38386: DA71402-1
Batch GP38424: DA71402-1
(*) Outside of QC limits
(a) Certification for this test is not offered.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71402
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Iron-Related Bacteria	MB1841	DA71342-1B	CFU/ml	9000	9000(a)	0.0(a)	0-%
Phosphorus, Total	GP38424/GN66577	DA70547-1	mg/l	0.0	0.0	0.0	0-20%
Slime Forming Bacteria	MB1840	DA71342-1B	CFU/ml	6700	67000(a)	0.0(a)	0-%
Solids, Total Dissolved	GN66484	DA71465-1	mg/l	497	504	1.3	0-5.44%
Specific Conductivity	GP38381/GN66473	DA71438-1	umhos/cm	722	725	0.4	0-20%
Sulfate Reducing Bacteria	MB1839	DA71342-1B	CFU/ml	6000	6000(a)	0.0(a)	0-%

Associated Samples:
Batch MB1839: DA71402-1B
Batch MB1840: DA71402-1B
Batch MB1841: DA71402-1B
Batch GN66484: DA71402-1
Batch GP38381: DA71402-1
Batch GP38424: DA71402-1
(*) Outside of QC limits
(a) Certification for this test is not offered.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71402
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP38386/GN66480	DA71389-2	mg/l	0.0	0.5	0.50	100.0	80-120%
Chloride	GP38386/GN66480	DA71389-2	mg/l	1.7	5	6.7	100.0	80-120%
Fluoride	GP38386/GN66480	DA71389-2	mg/l	0.062	1	1.1	103.8	80-120%
Nitrogen, Nitrate	GP38386/GN66480	DA71389-2	mg/l	0.16	0.1	0.26	100.0	80-120%
Nitrogen, Nitrite	GP38386/GN66480	DA71389-2	mg/l	0.012	0.05	0.063	102.0	80-120%
Phosphorus, Total	GP38424/GN66577	DA70547-1	mg/l	0.0	0.2	0.19	95.0	90-110%
Sulfate	GP38386/GN66480	DA71389-2	mg/l	40.2	5	42.1	68.0(a)	80-120%

Associated Samples:
Batch GP38386: DA71402-1
Batch GP38424: DA71402-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA71402
Account: ANADACOD - Occidental Petroleum Corporation
Project: Kerr-McGee:GWA_Fern_Pad

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP38386/GN66480	DA71389-2	mg/l	0.0	0.5	0.52	3.9	20%
Chloride	GP38386/GN66480	DA71389-2	mg/l	1.7	5	6.9	2.9	20%
Fluoride	GP38386/GN66480	DA71389-2	mg/l	0.062	1	1.1	0.0	20%
Nitrogen, Nitrate	GP38386/GN66480	DA71389-2	mg/l	0.16	0.1	0.26	0.0	20%
Nitrogen, Nitrite	GP38386/GN66480	DA71389-2	mg/l	0.012	0.05	0.065	3.1	20%
Sulfate	GP38386/GN66480	DA71389-2	mg/l	40.2	5	42.2	0.2	20%

Associated Samples:
Batch GP38386: DA71402-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED-EX Tracking # 7494 1075 8105 | Bottle Order Control # | SGS Quote # | SGS Job # DA71402

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City: Wheat Ridge, State: CO, Zip: 8003:
Project Contact: E-mail: parna.eskandaripayandeh@sgs.com,j
Phone #: 303-425-6021 Fax #:
Sampler(s) Name(s): AL Phone:

Project Information

Project Name: Kerr-McGee:GWA_Fern_Pad
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BAMS ,BMS ,CAMS ,FEMS ,KMS ,MGMS ,MNMS ,NAMS ,SEMS ,SRMS ,	LAB USE ONLY
1F	BW_BEARSON_158040 SWSW_18_2		3/24/25	10:28:00 AM	AL	AQ										X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 3/31/2025

Emergency & Rush T/A data available via Lablink Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] QC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

200.8
Initial Assessment JD-2-25
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 4-1-25 7:40	Received By: 1 FedEx	Relinquished By: 2 FedEx	Date Time: 4/2/25 10:35	Received By: 2		
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4		
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not Intact	Preserved where applicable [ ]	Therm. ID:	On Ice: Y Cooler Temp: 3.5

10.1 10

DA71402: Chain of Custody
Page 1 of 2
SGS Dayton, NJ

SGS Sample Receipt Summary

Job Number: DA71402 **Client:** SGS NORTH AMERICA INC **Project:** KERR-MCGEE GWA_FEM_PAD

Date / Time Received: 4/2/2025 10:35:00 AM **Delivery Method:** fedex **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.5);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

10.1 10

DA71402: Chain of Custody
Page 2 of 2

Metals Analysis

QC Data Summaries

(SGS Dayton, NJ)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA71402
Account: ALMS - SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Ferge_Water_Well

QC Batch ID: MP53612
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 04/03/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88		
Arsenic	1.0	.025	.25		
Barium	1.0	.009	.36	0.017	<1.0
Beryllium	0.50	.005	.065		
Boron	50	.85	18	-0.14	<50
Cadmium	0.50	.01	.099		
Calcium	250	3.6	35	-37	<250
Chromium	4.0	.018	.33		
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65		
Iron	50	.24	12	2.0	<50
Lead	0.50	.008	.14		
Magnesium	250	.19	43	1.2	<250
Manganese	1.0	.012	.38	0.057	<1.0
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26		
Potassium	250	.78	43	0.32	<250
Selenium	1.0	.044	.38	-0.012	<1.0
Silver	2.0	.004	.1		
Sodium	250	1.5	50	1.9	<250
Strontium	5.0	.014	.65	0.027	<5.0
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7		

Associated samples MP53612: DA71402-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA71402
Account: ALMS - SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Ferge_Water_Well

QC Batch ID: MP53612
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 04/03/25

Metal	DA71402-1F Original	MS	Spikelot MPX200.8B	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	46.8	124	80	96.5	70-130
Beryllium					
Boron	247	320	80	91.3	70-130
Cadmium	anr				
Calcium	1840	4080	2000	112.0	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	54.1	2170	2000	105.8	70-130
Lead	anr				
Magnesium	388	2520	2000	106.6	70-130
Manganese	6.0	86.3	80	100.4	70-130
Molybdenum	anr				
Nickel	anr				
Potassium	1110	3210	2000	105.0	70-130
Selenium	0.28	189	200	94.4	70-130
Silver	anr				
Sodium	240000	240000	2000	0.0 (a)	70-130
Strontium	61.7	141	80	99.1	70-130
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP53612: DA71402-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA71402
Account: ALMS - SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Ferge_Water_Well

QC Batch ID: MP53612
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 04/03/25

Metal	DA71402-1F Original	MSD	Spikelot MPX200.8B	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	46.8	123	80	95.3	0.8	10
Beryllium						
Boron	247	312	80	81.3	2.5	20
Cadmium	anr					
Calcium	1840	3820	2000	99.0	6.6	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	54.1	2030	2000	98.8	6.7	10
Lead	anr					
Magnesium	388	2360	2000	98.6	6.6	20
Manganese	6.0	82.5	80	95.6	4.5	10
Molybdenum	anr					
Nickel	anr					
Potassium	1110	3030	2000	96.0	5.8	20
Selenium	0.28	187	200	93.4	1.1	10
Silver	anr					
Sodium	240000	240000	2000	0.0 (a)	0.0	20
Strontium	61.7	139	80	96.6	1.4	
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP53612: DA71402-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA71402
Account: ALMS - SGS Wheat Ridge, CO
Project: ANADACOD: GWA_Ferge_Water_Well

QC Batch ID: MP53612
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 04/03/25

Metal	BSP Result	Spikelot MPX200.8B	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	82.1	80	102.6	85-115
Beryllium				
Boron	76.9	80	96.1	85-115
Cadmium	anr			
Calcium	2200	2000	110.0	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	2110	2000	105.5	85-115
Lead	anr			
Magnesium	2100	2000	105.0	85-115
Manganese	81.9	80	102.4	85-115
Molybdenum	anr			
Nickel	anr			
Potassium	2050	2000	102.5	85-115
Selenium	205	200	102.5	85-115
Silver	anr			
Sodium	2170	2000	108.5	85-115
Strontium	81.9	80	102.4	85-115
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP53612: DA71402-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested